

Applicant: Max Maier
Application No.: 10/019,106

~~30~~ 4. An air extraction apparatus according to claim 1, characterized in that the grease separating filter (30) is a cyclone filter.

~~31~~ 5. An air extraction apparatus according to claim 1, characterized in that a grease collecting pan (56) is located beneath the grease separating filter (30).

~~32~~ 6. An air extraction apparatus according to claim 1, characterized in that the odor filter (32) is a zeolite filter.

~~33~~ 7. An air extraction apparatus according to claim 1, characterized in that the air circulation loop (48) has two vertical air channels (39, 40) in the region below the work station (14), above which the space in which the blower (26) and the filter apparatus (28) are housed is connected to air openings (36, 38) on both sides of the work station (14).

~~34~~ 8. An air extraction apparatus according to claim 1, characterized in that a space (24') in which the blower (26) and the filter installation (28) are housed, is located beside the work station (14).

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3>9. An air extraction apparatus according to claim 1, characterized in that the grease separating filter (30) and the odor filter (32) are positioned inclined with respect to the vertical (39, 40).

3>10. An air extraction apparatus according to claim 9, characterized in that the grease separating filter (30) is inclined with respect to the vertical at an angle of 40° to 50°, preferably of 45°.

3>11. An air extraction apparatus according to claim 9, characterized in that the odor filter (32) is inclined with respect to the vertical at an angle of 30° to 40°, preferably 35°.

3>12. An air extraction apparatus according to claim 9, characterized in that the space (24, 24') in which the blower (26) and the filter arrangement (28) are housed, is divided by the two filters (30, 32) into an entry and exit chamber (58, 60) respectively.

3>13. An air extraction apparatus according to claim 12, characterized in that the air outlet (50) is located in a wall of the exit chamber (60).

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~~44~~ 14. An air extraction apparatus according to claim ~~8~~³⁴, characterized in that the work station (14) is a grill which extends above the space in which the blower (26) and the filter installation (28) are installed or beside that space (24').

~~45~~ 15. An air extraction apparatus according to claim 1, characterized in that the air outlet (50) is so-shaped or adjusted that 75% of the air is released from the air circulation loop (48) and the remaining 25% reach the work station (14) as ambient air and form its air curtain (44).

~~46~~ 16. An air extraction apparatus according to claim 1, characterized by at least one air intake (38, 63) for drawing ambient air into the air circulation loop (48) to replace the air released into the surroundings through the air outlet (50) from the air circulation loop (48).

~~47~~ 17. An air extraction apparatus according to claim ~~16~~¹⁶, characterized in that the air opening (38) is on the downstream side of the work station (14).

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18. An air extraction apparatus according to claim 16, characterized in that the air intake is an additional air opening (63) located downstream from the air opening (38) on the downstream side of the work station (14) and upstream of the blower (26).

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19. An air extraction apparatus according to claim 1, characterized in that it forms a kitchen module (10) integrated into a kitchen work station.

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20. An air extraction apparatus according to claim 1, characterized in that both air openings (36, 38) are so located relative to each other than an air flow axis symbolizing the air curtain (44) is inclined slightly downwardly with respect to the horizontal toward the downstream air opening (38).

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21. An air extraction apparatus according to claim 1, characterized in that the upstream air opening (36) is formed as a narrow exit slot and that the oppositely located downstream air opening (38) takes the form of a substantially broader intake slot.

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22. An air extraction apparatus according to claim ²¹, characterized in that the exit slot and the intake slot are formed by air guiding elements (64-67) in the vertical air channels (39, 40).

⁴⁹
^{23.} An air extraction apparatus according to claim ²², characterized in that the exit slot is inclined slightly downwardly with respect to the horizontal and in that the intake slot is provided with radii located on its oppositely positioned inner walls.

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24. An air extraction apparatus according to claim ²¹, characterized in that a segment of the vertical air channel which extends behind the downstream air opening (38) is covered upwardly by an air guiding element (65).

⁵¹
^{25.} An air extraction apparatus according to claim ²⁴, characterized in that, for increasing size of the work station and resulting increasing spacing between the upstream and downstream air openings (36, 38), the covering upper air guiding element (65', 65'') is increasingly shortened.

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26. An air extraction apparatus according to claim *25*, characterized in that the air guiding element (65") has an S-shaped cross-section.

27. An air extraction apparatus according to claim 1, characterized in that the work station (14) above the air openings (36, 38) is surrounded on three sides, not including its operator's side (13), by an air guiding wall, especially a splash guard (11), which increases in height starting from the operator's side (13) in a direction transverse to the air curtain (44) toward the opposite side of the work station.

28. An air extraction apparatus according to claim *27*, characterized in that the air guiding wall (11) is a U-shaped edge-encircling metal sheet. --

REMARKS

When this new Section 371 application was originally filed (in its published German-language version) there was co-filed with it a Preliminary Amendment which cancelled its (also German-language) claims 3 - 28.